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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,684	12/02/2003	Yutaka Ito	500.41214VX1	2359
20457 7	7590 04/14/2004		EXAM	INER
ANTONELLI, TERRY, STOUT & KRAUS, LLP			PHAM, LY D	
1300 NORTH SEVENTEENTH STREET		ART UNIT	PAPER NUMBER	
SUITE 1800 ARLINGTON	, VA 22209-9889		2818	
•			DATE MAILED: 04/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Assign Commons	10/724,684	ITO, YUTAKA				
Office Action Summary	Examiner	Art Unit				
	Ly D Pham	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 02 December 2003.						
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 2.3 and 7-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 2.3 and 7-12 are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1203.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Applicant's Pre-Amendment filed December 02, 2003 has been entered. Claims 1 and 4 1.

- 6 have been canceled.

In the Election of Species Requirement dated January 29, 2003, claim 2 belongs to group 2.

II, claim 3 belongs to group III, claims 7 and 10 – 12 belong to group IV, claim 8 belongs to

group V, and claim 9 belongs to group VI. Applicant's Remarks requesting examinations of

claims 2, 3, and 7 – 12 have been carefully reviewed and below is what has been taken into re-

consideration with respect to different embodiments as well as the different aspects of the

inventions and how closely they are related.

Election/Restrictions

This application contains claims directed to the following patentably distinct species of 3.

the claimed invention:

Group I, drawn to claims 2 and 3, which claim a semiconductor apparatus comprising on

one semiconductor substrate: a plurality of word lines, a plurality bit lines; and a plurality of

memory cells, each including a capacitor having first and second electrodes, and a switching

device having a control terminal connected to a corresponding word line among the plurality of

word lines, and a current channel connected between the first electrode and a corresponding bit

line among the plurality of bit lines.

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Group II, drawn to claims 7 – 12, which claim a semiconductor apparatus comprising on one semiconductor substrate: a plurality of memory cells, each including a capacitor having first and second electrodes for holding an information voltage, a MOSFET having the information voltage of the capacitor supplied to a gate, and a writing transistor for supplying the information voltage to the capacitor; a plurality of word lines connected to the second electrode of the capacitor, and a gate of the writing transistor; and a plurality of bit lines disposed in a direction

orthogonal to the word lines for receiving a writing voltage and a source output of the MOSFET.

- 4. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.
- 5. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.
- 6. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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7. Should applicant traverse on the ground that the species are not patentably distinct,

applicant should submit evidence or identify such evidence now of record showing the species to

be obvious variants or clearly admit on the record that this is the case. In either instance, if the

examiner finds one of the inventions unpatentable over the prior art, the evidence or admission

may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Conclusion

8. A shortened statutory period for response to this action is set to expire 1 (one) month and

0 (zero) day from the date of this letter. Failure to respond within the period for response will

cause the application to become abandoned (see MPEP 710.02(b)).

9. Any inquiry concerning this communication on earlier communications from the

examiner should be directed to Ly Pham, whose telephone number is 571-272-1793. The

examiner can normally be reached on Monday – Friday from 8:30am to 5:00pm, alternate Friday

off. The examiner's supervisor, David Nelms, can be reached at 571-272-1787. The fax number

for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0956.

Ly Pham

Jy i mam

April 10, 2004

David Nelms
Supervisory Patent Examiner
Technology Center 2800

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